

Applicant : MBT Holding
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Page : 6

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REMARKS

Please enter the changes to the claims as entered herein. The claims have been amended to cast them into a form more amenable to US practice. New claims 12 - 17 have been added as further dependent claims and are addressed to certain embodiments of the invention as filed.

Attached is a marked-up version of the changes being made by the current amendment.

Applicant asks that all claims be examined. Please apply any other charges necessary for the entry of these amended claims, or issue credits to Deposit Account No. 06-1050.

Respectfully submitted,

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12 July 2001

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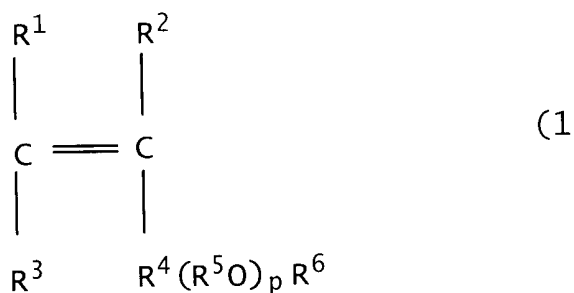
Version with markings to show changes made

In the claims:

Claim 10 has been cancelled.

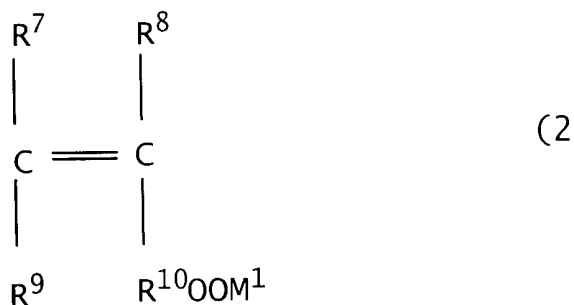
Claims 3 – 11 have been amended as follows:

3.(Amended) A cement additive according to claim 1 [or 2], wherein the monomer (A) is a compound according to general formula (1):



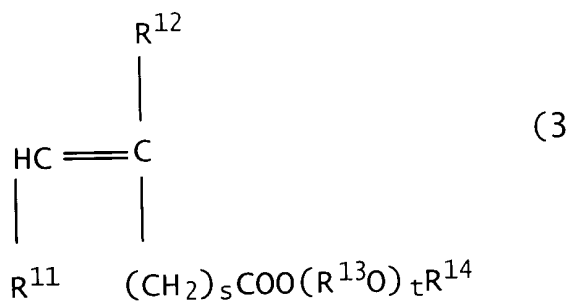
wherein R^1 , R^2 and R^3 are each independently hydrogen or methyl, provided that not all are methyl; R^4 is $-\text{CH}_2\text{O}-$, $-(\text{CH}_2)_2\text{O}-$, $-\text{C}(\text{CH}_3)_2\text{O}-$ or $-\text{O}-$; the total carbon number of R^1 , R^2 , R^3 and R^4 is 3; $R^5\text{O}$ is one or more species of C_2 - C_4 oxyalkylene groups, and, in the case of two or more species, may be block or random; R^6 is hydrogen or a C_1 - C_{22} alkyl, phenyl or C_1 - C_{18} alkylphenyl group; p is an integer from on average 1 to 100,

the monomer (B) is a compound according to general formula (2):



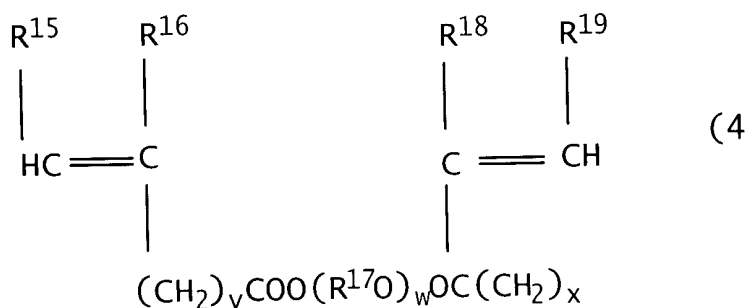
wherein R^7 and R^8 are each independently hydrogen or methyl; R^9 is hydrogen, methyl or $-(CH_2)_qCOOM^2$; R^{10} is $-(CH_2)_r-$; q and r are each independently an integer from 0 to 2; M^1 and M^2 are a monovalent metal, a divalent metal, ammonium or an organic amine;

the monomer (C) is a compound according to general formula (3):



wherein R^{11} and R^{12} are each independently hydrogen, methyl or $(CH_2)_uCOOM^3$, u is an integer from 0 to 2, M^3 is a monovalent metal, a divalent metal, ammonium or an organic amine; $R^{13}O$ is one or more species of C_2 - C_4 oxyalkylene groups, and, in the case of two or more species, may be block or random; R^{14} is a C_1 - C_{22} hydrogen or an alkyl, phenyl or C_1 - C_{22} alkylphenyl group; s is an integer from 0 to 2; t is an integer an average from 1 to 300; and

the monomer (D) is a compound according to the following general formula (4):



wherein R^{15} , R^{16} , R^{18} and R^{19} are each independently hydrogen or methyl, provided that not all are methyl; $R^{17}O$ is one or more species of C_2 - C_4 oxyalkylene groups, and, in the case of two or

more species, may be block or random; w is an integer an average from 1 to 300; v and x are each independently an integer from 0 to 2.

4.(Amended) A cement additive according to claim 1 [any one of claims 1-3,] wherein the composition ratios of the monomers (A) and (B) in the polycarboxylic acid type copolymer are 30-100 mole % based on the total mole amount of their monomers, and the average molecular weight of said polycarboxylic acid type copolymer is from 3,000 to 100,000.

5.(Amended) A cement additive according to claim 1 [any one of claims 1-3], wherein the average molecular weight of the polyalkylene glycol derivative is from 1,000 to 100,000, and in which the alkylene is one or more C₂-C₄ species, and the terminal group of the polyalkylene glycol is hydrogen, a C₁-C₁₈ alkyl group or a phenyl group.

6.(Amended) A cement additive according claim 1 [to any one of claims 1-5], containing 100 weight parts of the polycarboxylic acid type copolymer and 10-50 weight parts of the polyalkylene glycol derivative in the mixing proportion.

7.(Amended) A cement additive according to claim 1 [any one of claims 1-6], wherein the amount used in a cementitious composition is such that the amount of polycarboxylic acid type copolymer to cement is 0.05-1.0 % by weight based on the weight of cement, and the amount of the polyalkylene glycol derivative to cement is 0.005-0.5 % by weight based on the weight of cement.

8.(Amended) A high strength concrete mix, comprising a cement additive according to claim 1 [any one of claims 1-7.]

9. (Amended) A concrete mix for the production of articles by steam curing, comprising a cement additive according to claim 1 [any one of claims 1-7.]

10. Canceled

11. (Amended) A method of preparation of a high-strength concrete mix, comprising the incorporation in the mix of a cement additive according to claim 1 [any one of claims 1-7.]

The following new claims have been added

12. A high strength concrete mix, comprising a cement additive according to claim 2.

13. A high strength concrete mix, comprising a cement additive according to claim 3.

14. A concrete mix for the production of articles by steam curing, comprising a cement additive according to claim 2.

15. A concrete mix for the production of articles by steam curing, comprising a cement additive according to claim 3.

16. A method of preparation of a high-strength concrete mix, comprising the incorporation in the mix of a cement additive according to claim 2.

17. A method of preparation of a high-strength concrete mix, comprising the incorporation in the mix of a cement additive according to claim 3.